IN THE CLAIMS

Please cancel claims 36 and 43-47 without prejudice or disclaimer as to the subject matter thereof.

1.-34. (canceled)

35. (currently amended) An implantable multi-chamber pacing system including coronary sinus blood flow sensing capability for detecting an episode of myocardial ischemia, comprising:

atrial sense means for sensing atrial signals from an atrium of a patient's heart;

ventricular sense means for sensing ventricular signals from a patient's right ventricle;

coronary vein sense means disposed within a portion of a coronary sinus or great cardiac vein of the patient for sensing electrical ventricular signals from the patent's left ventricle and for providing ~~an~~ myocardial ischemia signal representing a reduced blood flow rate through the patient's coronary sinus over a period of time, wherein the sense means comprises at least one electrode and a flow meter, respectively; and

signal processing means for analyzing the ventricular signals, the atrial signals and the myocardial ischemia signal representing the reduced blood flow rate to detect a myocardial ischemia cardiac condition based at least in part upon the myocardial ischemia signal.

36. (canceled)

37. (currently amended) The pacing system of claim 35 and further including dispensing means for dispensing a non-genetically active therapeutic drug when the myocardial ischemia cardiac condition is detected.

38. (currently amended) The pacing system as described in claim ~~35~~ 37, comprising programmer means for remotely programming ~~controlling~~ the signal processing means via a wireless telemetry link.

39. (currently amended) The pacing system as described in claim ~~35~~ 37, further comprising defibrillation means for generating and providing a defibrillation pulse to the patient's heart.

40.-47. (canceled)

48. (new) A computer readable medium for storing software encoded instructions for performing a method of cardiac pacing, including a coronary sinus blood flow sensing capability for detecting an episode of myocardial ischemia and optionally responding to a detected episode with a fluid therapeutic agent, said medium comprising:

instructions for sensing atrial signals from an atrium of a patient's heart;

instructions for sensing ventricular signals from a patient's right ventricle;

instructions for sensing electrical ventricular signals from a location within a portion of a coronary sinus or great cardiac vein of the patient relating to the patent's left ventricle and for providing a myocardial ischemia signal representing a reduced blood flow rate through the patient's coronary sinus over a period of time, wherein the instructions couple to control at least one electrode and at least one a flow meter, respectively; and

instructions for analyzing the ventricular signals, the atrial signals and the myocardial ischemia signal representing the reduced blood flow

rate to detect a myocardial ischemia cardiac condition based at least in part upon the myocardial ischemia signal.

49. (new) A computer readable medium according to claim 48, further including instructions for dispensing a non-genetically active therapeutic drug when the myocardial ischemia cardiac condition is detected.

50. (new) A computer readable medium according to claim 49, further comprising instructions for remotely programming the signal processing means via a wireless telemetry link.

51. (new) A computer readable medium according to claim 49, further comprising instructions for generating and providing a defibrillation pulse to the patient's heart.